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TECH CENTER 1600,2000

1642

H6

RAW SEQUENCE LISTING
 PATENT APPLICATION: US/09/590,583

DATE: 04/17/2001
 TIME: 11:16:27

Input Set : A:\419c9.app.txt
 Output Set: N:\CRF3\04172001\I590583.raw

ENTERED

See p.5

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3 <110> APPLICANT: Frudakis, Tony N.
4   Reed, Steven G.
5   Smith, John M.
6   Misher, Linda E.
7   Dillon, Davin C.
8   Retter, Marc W.
9   Wang, Aijun
10  Skeiky, Yasir A.W.
12 <120> TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE
13   THERAPY AND DIAGNOSIS OF BREAST CANCER
16 <130> FILE REFERENCE: 210121.419C9
C--> 18 <140> CURRENT APPLICATION NUMBER: US/09/590,583
19 <141> CURRENT FILING DATE: 2000-06-08
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28 <212> TYPE: DNA
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34   ttgtctaagg cgattgaagt cgtccagggg catgatgagt caccaggagt gtttttagag      180
35   cacctocagg aggcttatcg gatttacacc ccttttgacc tggcagcccc cgaaaatagc      240
36   catgctctta atttggcatt tgtggctcag gcagccccag atagtaaaag gaaactccaa      300
37   aaactagagg gattttgctg gaatgaatac cagtcagctt ttagagatag cctaaaaggt      360
38   ttt
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41 <211> LENGTH: 121
42 <212> TYPE: PRT
43 <213> ORGANISM: Homo sapien
45 <400> SEQUENCE: 2
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47   1          5          10          15
48   Gly Arg Thr Phe Asp Asp Phe His Arg Tyr Leu Leu Val Gly Ile Gln
49   20          25          30
50   Gly Ala Ala Gln Lys Pro Ile Asn Leu Ser Lys Ala Ile Glu Val Val
51   35          40          45
52   Gln Gly His Asp Glu Ser Pro Gly Val Phe Leu Glu His Leu Gln Glu
53   50          55          60
54   Ala Tyr Arg Ile Tyr Thr Pro Phe Asp Leu Ala Ala Pro Glu Asn Ser
55   65          70          75          80
56   His Ala Leu Asn Leu Ala Phe Val Ala Gln Ala Ala Pro Asp Ser Lys
57   85          90          95
58   Arg Lys Leu Gln Lys Leu Glu Gly Phe Cys Trp Asn Glu Tyr Gln Ser
59   100         105         110
60   Ala Phe Arg Asp Ser Leu Lys Gly Phe

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65 <212> TYPE: DNA
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69 <221> NAME/KEY: misc_feature
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71 <223> OTHER INFORMATION: n = A,T,C or G
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75  caccatttta ggaggagcaa agctacctca gctcctccgg agccgtttta agatccccc      120
76  tcttcaaagc ctaacagatc aagcagctct ccggtgcaca acctgcgccc aggtaaatgc      180
77  caaaaaaggt cctaaaccca gcccaggcca ccgtctccaa gaaaactcac caggagaaaa      240
78  gtgggaaatt gactttacag aagtaaaacc acaccgggct ggttaccaat accttctagt      300
79  actggtagac accttctctg gatggactga agcatttgct accaaaaacg aaactgtcaa      360
80  tatggtagtt aagtttttac tcaatgaaat catccctcga cgtgggctgc ctgttgccat      420
81  aggtgtctgat aatggaacgg ccttcgcctt gtctatagtt taatcagtca gtaaggcggt      480
82  aaacattcaa tggaagctcc attgtgccta tcgaccaga gctctgggca agtagaacgc      540
83  atgaactgca ccctaaaaaa acactcttac aaaattaatc ttaaaaaccg gtgttaattg      600
84  tgtagtctc ctcccttag cctacttag agttaagggt cacccttac tgggctgggt      660
W--> 85  tctttacctt ttgaaatcat ntttnggaag gggctgccta tcttttctta actaaaaaan      720
W--> 86  gccatttgg caaaaatttc ncaactaatt tntacgtnc taccgtctcc caacagggtan      780
W--> 87  aaaaatctnc tgccttttc aaggaacat cccatccatt cctnaacaaa aggcctgccn      840
W--> 88  ttcttcccc agttaactnt tttttnttaa aattcccaa aaangaaccn cctgctggaa      900
W--> 89  aaacncccc ctccaanccc cggccnaagn ggaaggttcc ctggaatccc nccccncna      960
W--> 90  anggccgga accnttaaan tngttccngg gggtnnggcc taaaagnccn atttggtaaa      1020
W--> 91  cctanaaatt tttcttttn taaaaccac ntttntttt ttcttaaca aaacctntt      1080
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94 <211> LENGTH: 1087
95 <212> TYPE: DNA
96 <213> ORGANISM: Homo sapien
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99 <221> NAME/KEY: misc_feature
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101 <223> OTHER INFORMATION: n = A,T,C or G
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105  caagtaggcc cttaaacta ctcacctgtg ttgtcttcta atttattctg ttttattttg      120
106  ttccatcat tttaaggggt taaaatcacc ttgttcagac ctcagcatat aaaatgacct      180
107  atctgtagac ctcaggctcc aaccataccc caagagttgt ctggttttgt ttaaattact      240
108  gccaggtttc agctgcagat atccctggaa ggaatattcc agattccctg agtagtttcc      300
109  aggttaaaat cctataggct tcttctgttt tgaggaagag ttctgtcag agaaaaacat      360
110  gattttggat ttttaacttt aatgctgtgt aaacgctata aaaaaattt tctacccta      420
111  gctttaaagt actgttagtg agaaattaaa attccttcag gaggattaaa ctgccatttc      480
112  agttacccta attccaaatg ttttgggtgt tagaatcttc ttaatgttc ttgaagaagt      540
W--> 113  gttttatatt ttcccatcna gataaattct ctcnccctt nttttntnt ctnntttttt      600
W--> 114  aaaacggant cttgctccgt tgtccangct gggaaatttn ttttgccaa tctccgctnc      660
W--> 115  cttgcaanaa tntgcntcc caaaattacc ncctttttcc cactccacc ccnnggaatt      720

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PATENT APPLICATION: US/09/590,583

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Input Set : A:\419c9.app.txt

Output Set: N:\CRF3\04172001\I590583.raw

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W--> 116 acctggaatt anaggccccc ncccccccc cggttaattt gtttttgttt ttagtaaaaa 780
W--> 117 acgggtttcc tgttttagtt aggatggccc anntctgacc cctnatcnt cccctcngc 840
W--> 118 cctcnaatnt tnggnntang gcttaccccc ccngnngtt ttctctccat tnaaattttc 900
W--> 119 tntggantct tgaatnncgg gttttccett ttaaaccnat ttttttttn nnncccccان 960
W--> 120 ttttncctcc cccntntnta aggggggttt cccaanccgg gtcncccccc angtecccaa 1020
W--> 121 tttttctccc cccctctett ttttcttnc cccaaaantc ctatcttttc cttnaaatat 1080
W--> 122 cnantnt 1087
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125 <211> LENGTH: 1010
126 <212> TYPE: DNA
127 <213> ORGANISM: Homo sapien
129 <220> FEATURE:
130 <221> NAME/KEY: misc_feature
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132 <223> OTHER INFORMATION: n = A,T,C or G
134 <400> SEQUENCE: 5
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137 aggtaacaca catactatct cccaaatacc taccacaaag ctcaacaatt ttaaactgtt 180
138 aggatcactg gctctaatac ccatgacatg aggtcaccac caaaccatca agcgctaaac 240
139 agacagaatg tttccactcc tgatccactg tgtgggaaga agcaccgaac ttaccactg 300
W--> 140 gggggcctgc ntcanaanaa aagcccatgc ccccggtnt ncctttnaac cggaacgaat 360
W--> 141 naaccaccca tccccacanc tctctgttc ntgggacctg catcttggtg cctentntnc 420
W--> 142 tttnggggan acntggggaa ggtaccccat ttctttgacc ccnanaanaa acccngtgg 480
W--> 143 ccttttgcct tgattcnent gggccttttc tcttttccct tttgggttgt ttaaattccc 540
W--> 144 aatgtcccn gaacctctc cntnctgccc aaaacctacc taaattntc nctangnntt 600
W--> 145 ttcttggtgt tntttttcaa aggtnacett nctgttcan nccnacnaa aattnttcc 660
W--> 146 ntatnntggn cccnnaaaaa nnnatcnnc cnaattgccc gaattggttn ggttttccct 720
W--> 147 nctgggggaa accctttaaa ttccccctt ggcgggcccc ccttttttcc ccccttnga 780
W--> 148 aggcaggngg ttcttccga acttccaatt ncaacagcgn tgccattgn tgaaacctt 840
W--> 149 ttctaaaaat taaaaaatan ccggttnngg nnggcctctt tccccctcng gngggngng 900
W--> 150 aaantcetta cccnnaaaaa ggttgcttag ccccnngtcc cactcccc nggaaaaatn 960
W--> 151 aaccttttcn aaaaaaggaa tataanttn ccactccttn gttctcttcc 1010
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154 <211> LENGTH: 950
155 <212> TYPE: DNA
156 <213> ORGANISM: Homo sapien
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160 <222> LOCATION: (1)...(950) /
161 <223> OTHER INFORMATION: n = A,T,C or G
163 <400> SEQUENCE: 6
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166 ctgggattac aggcgtgcaa caccacacc ggctaatttt gtatttttaa tagagatgg 180
W--> 167 gttttccctt gttggccann atggtctcna accctgacc tcnngtgatc ccccncccn 240
W--> 168 nganctenna ctgctgggga tnnccgnnnn nnnctcccn ncnnnnnnn ncnntccn 300
W--> 169 tntctcttnc tcnnnnnnnn cnntcnntcc ncttctcnc cnntntntn cncnncnn 360
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W--> 171 ccnntacntc ntannnnnt cctctntnn cctcnnnnt cncncnnt tntctctcn 480
W--> 172 ntannnnnt cctcnnnt cctcnnnt tncctcnnnt nccncccc nccctcnnnc 540
W--> 173 ctntttttnn cnnnnntcc ntncnttn nntcnnntn cnnctcncn nncnttttc 600
W--> 174 ccnccnnttc cttncnctn nntntcnnn cncntcnnn ntttctct nntcccnnc 660
W--> 175 tcnnttcnc cnnntccnc cccnccctnt ctctcncn nntnnntn nnnctcnc 720
W--> 176 tntcncnttc ntcnntcnc tncntcnc nncnntcnc tncntntnt ctnntcncn 780
W--> 177 tcnctntcn cctccttn ctntctctn tntctctcc ctncctnct cttcncnc 840
W--> 178 cctntntn tnnccnnt nctnnncnc cncntttcn tctctnctn nntnnccctc 900
W--> 179 nccccncc ctntcncct nctntaccn tncntcnc tctctctcc 950
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183 <212> TYPE: DNA
184 <213> ORGANISM: Homo sapien
186 <220> FEATURE:
187 <221> NAME/KEY: misc_feature /
188 <222> LOCATION: (1)...(1086) /
189 <223> OTHER INFORMATION: n = A,T,C or G
191 <400> SEQUENCE: 7
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193 ctgttactgt gtctatgtag aaagaagtag acataagaga ttccattttg ttctgtacta 120
194 agaaaaattc ttctgccttg agatgctgtt aatctgtaac cctagcccca accctgtgct 180
195 cacagagaca tgtgctgtgt tgactcaagg ttcaatggat ttagggctat gctttgttaa 240
196 aaaagtgtt gaagataata tgctgttaa aagtcacac cattctctaa tctcaagtac 300
197 ccagggacac aatacactgc ggaaggccgc agggacctct gtctaggaaa gccaggatt 360
198 gtccaagatt tctcccatg tgatagcctg agatattggc tcatgggaag ggtaagacct 420
199 gactgtcccc cagcccgaca tccccagcc cgacatcccc cagcccgaca cccgaaaagg 480
W--> 200 gtctgtgctg aggaagatta ntaaaaggagg aaggctcttt gcattgaagt aagaagaagg 540
201 ctctgtctcc tgctcgtccc tgggcaataa aatgtcttg tgttaaacc gaatgtatgt 600
202 tctacttact gagaatagga gaaaacatcc ttagggctgg aggtgagaca ccctggcggc 660
W--> 203 atactgtctt ttaatgcacg agatgtttgt ntaattgcc tccagggcc ncccccttc 720
W--> 204 ttaacttttt atganacaaa aactttgttc nctttctctg cgaacctct cccctattan 780
W--> 205 cctattggcc tgcccatccc ctcccaaan ggtgaaaana tgttntaaa tncgagggaa 840
W--> 206 tccaaaacnt ttcccgctg gtccctttc caaccccgtc cctgggccnn ttctctccc 900
W--> 207 aacntgtccc ggntccttcn tccncccc cttccngan aaaaaacccc gtntganggn 960
W--> 208 gccccctcaa attataacct ttcnaaaca aannggcttc aagggtggtt gnttccggtg 1020
W--> 209 cggtggcct tgaggctccc cctncacccc aatttggaan cngtttttt ttattgccc 1080
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213 <211> LENGTH: 1177
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215 <213> ORGANISM: Homo sapien
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219 <222> LOCATION: (1)...(1177) /
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224 aagcatcctg gagtatcaga gtttactgtt agatcagcct catttgactt cccctccac 120
225 atggtgttta aatccagcta cactacttcc tgactcaaac tccactattc ctgttcatga 180

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226 ctgtcaggaa ctgttgaaa ctactgaaac tggccgacct gatcttcaaa atgtgcccct 240
W--> 227 aggaaagggt gatgccaccg tgttcacaga cagtaccncc ttccctcgaga agggactacg 300
W--> 228 aggggccggt gcanctgtta ccaaggagac tnatgtgttg tgggctcagg ctttaccanc 360
W--> 229 aaacacctca ncnncnaagg ctgaattgat cgcctcact caggctctcg gatggggtaa 420
230 gggatattaa cgttaacact gacagcaggt acgcctttgc tactgtgcat gtacgtggag 480
W--> 231 ccactetacca ggagcgtggg ctactcactc ggcaggtggc tgnatccac tgtaaangga 540
W--> 232 catcaaaagg aaaacnnggc tgttgcccgt ggtaaccana aanctgatcn ncagctcnaa 600
W--> 233 gatgctgtgt tgactttcac tcncncctct taaacttget gccacantc tcctttccca 660
W--> 234 accagatctg cctgacaate cccatactca aaaaaaaaaa aanactggcc ccgaaccna 720
W--> 235 accaataaaa acgggggagg tnggtnganc nncctgaccc aaaataatg gatccccgg 780
W--> 236 gctgcaggaa ttcaattcan ccttactnat acccccaacn ngnggggggg ggcngtnc 840
W--> 237 cattnccct ntattnatc tttnnccccc ccccgccnt cctttttnaa ctogtgaaag 900
W--> 238 ggaaaacctg ncttaccan ttatcnctg gacctcccc ttccnccgtn gnttanaaaa 960
W--> 239 aaaagccenc antccntcc naaatttgea cngaaaggna aggaatttaa cctttatatt 1020
W--> 240 ttnntccttt antttgtnnn ccccttttta cccagcgaa cngccatcnt ttaanaaaaa 1080
W--> 241 aaanagaang tttattttct cttngaacca tcccaatana aancaccgc nggggaacgg 1140
W--> 242 gnggnaggg cnetcacccc ctttngtng gngggnc 1177
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245 <211> LENGTH: 1146
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252 <223> OTHER INFORMATION: n = A,T,C or G
254 <400> SEQUENCE: 9
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257 agactccatc agtgaggtca aagcctgggg cttttcagag aaggagggat tatgggtttt 180
258 ccaattatac aagtcagaag tagaaagaag ggacataaac caggaagggg gtggagcact 240
259 catcacccag agggacttgt gcctctctca gtggtagtag aggggctact tcctccacc 300
W--> 260 acggttgcaa ccaagaggca atgggtgatg agcctacagg ggacatancc gaggagacat 360
261 gggatgaccc taaggagta ggctggtttt aaggcgggtg gactgggtga gggaaactct 420
262 cctcttcttc agagagaagc agtacagggc gagctgaacc ggctgaaggt cgaggcgaaa 480
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265 gaagccggga atttcattaa caaccgcca cacagcttga acattgtgag gttcagtgac 660
W--> 266 ctttcaagg gccactccac tccaaacttg gccattctac ttgcnnaat ttccaaaact 720
W--> 267 tcctttttta aggccgaatc cntantccct naaaaaacnaa aaaaaatctg cncctattct 780
W--> 268 ggaaaaggcc cancccttac caggctggaa gaaattttnc cttttttttt tttttgaagg 840
W--> 269 cntttnttaa attgaacctn aattcncccc cccaaaaaaa aaccnccng gggggcgat 900
W--> 270 ttccaaaaac naattccctt accaaaaaac aaaaaccnc ccttnttccc ttccnccctn 960
W--> 271 ttcttttaat tagggagaga tnaagcccc caatttcng gnetngatnn gtttcccccc 1020
W--> 272 ccccatctt ccnaaacttt tcccancna ggaancnc ctttttttng gtengattna 1080
W--> 273 ncaaccttc aaacctttt tccnaaaaa nttgntng ngggaaaaan acctntttt 1140
W--> 274 atagan 1146
276 <210> SEQ ID NO: 10
277 <211> LENGTH: 545
278 <212> TYPE: DNA

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Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

VERIFICATION SUMMARY
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Input Set : A:\419c9.app.txt
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L:18 M:270 C: Current Application Number differs, Wrong Format
L:85 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3
L:86 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3
L:87 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3
L:88 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3
L:89 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3
L:90 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3
L:91 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3
L:113 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4
L:114 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4
L:115 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4
L:116 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4
L:117 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4
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L:179 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6
L:200 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7
L:203 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7
L:204 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7
L:205 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7
L:206 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7

VERIFICATION SUMMARY

DATE: 04/17/2001

PATENT APPLICATION: US/09/590,583

TIME: 11:16:28

Input Set : A:\419c9.app.txt

Output Set: N:\CRF3\04172001\I590583.raw

L:207 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7

L:208 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7

L:209 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7

L:5725 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:322